Listing of the Claims:

1-15. (Canceled)

16. (Currently amended) An epitaxial growth method of III-V nitrides alloy, comprising:

forming an initial buffer layer on a substrate;

spreading a liquid comprising one or more group III elements and nitrogen on the initial buffer layer by spinning the substrate having the liquid at selected rotation speed to form a thin, spin-coated layer covering the entire initial buffer layer on the a substrate

annealing the spin-coated layer in a gas atmosphere at a temperature equal to or higher than 700°C so as to crystallize the spin-coated layer; and

growing an III-V nitride alloy film on the spin-coated film after said annealing, which is thicker than the spin coated layer and provided that any group III element in the grown III-V nitride alloy film is different from the one or more group III elements of the spin-coated film, wherein lattice constant of the initial buffer layer is between that of the substrate and that of the overgrown III-V alloy film.

- 17. (Previously Presented) The epitaxial growth method of claim 16, wherein the gas atmosphere comprises nitrogen as an element.
 - 18. (Canceled)
- 19. (Previously Presented) The epitaxial growth method of claim 17 wherein the gas atmosphere comprises ammonia.
- 20. (Previously Presented) The epitaxial growth method of claim 17 wherein the gas atmosphere comprises radical nitrogen atoms.
- 21. (Withdrawn) The epitaxial growth method of claim 16 wherein the spin-coated film is selected from the group consisting of GaN, AlN, InGaN, and AlGaN.

- 22. (Withdrawn) The epitaxial growth method of claim 16 wherein the substrate is selected from the group consisting of sapphire, SiC, Si, GaAs, InP, GaP, ZnO, MgO, LiGaO₂, and LiAlO₂.
- 23. (Previously Presented) The epitaxial growth method of claim 16 wherein the epitaxial III-V nitride alloy film comprises a pn junction.
- 24. (Previously Presented) The epitaxial growth method of claim 16 wherein the epitaxial III-V nitride alloy film is grown by a method selected from the group consisting of metal organic chemical vapor deposition, molecular beam epitaxy, and hydride vapor phase epitaxy.
- 25. (Previously Presented) The epitaxial growth method of claim 16 wherein the epitaxial III-V nitride alloy film is grown by a sequential combination of two or more different growth methods selected from the group consisting of metal organic chemical vapor deposition, molecular beam epitaxy, and hydride vapor phase epitaxy.
- 26. (Withdrawn) The epitaxial growth method of claim 16 wherein the spin-coated film is formed by more than two spin coatings.
- 27. (Withdrawn) The epitaxial growth method of claim 26 wherein the spin-coated film is formed by more than two cycles of spin coating and annealing.
- 28. (Withdrawn) The epitaxial growth method of claim 26 wherein the composition ratio varies in the spin-coated film.
- 29. (Withdrawn) The epitaxial growth method of claim 26 wherein the lattice constant in the spin-coated film is monotonously increased from the substrate to the epitaxial III-V nitrides alloy film.

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- 30. (Withdrawn) The epitaxial growth method of claim 26 wherein the lattice constant in the spin-coated film is monotonously decreased from the substrate to the epitaxial III-V nitrides alloy film.
- 31. (Original) The epitaxial growth method of claim 16 wherein the substrate has a cover layer on the surface on which the spin coating is applied.
- 32. (Previously presented) The epitaxial growth method of claim 31 wherein the substrate is silicon covered by silicon carbide.
- 33. (Previously Presented) The epitaxial growth method of claim 31 wherein the substrate is silicon covered by zinc oxide.
- 34. (Previously Presented)) An epitaxial growth method of III-V nitrides alloy, comprising:

spreading a liquid comprising a compound having a metal and oxygen on a substrate; forming a spin-coated layer of the liquid on the substrate by spinning the substrate having the liquid at selected rotation speeds;

annealing the spin coated layer in a gas atmosphere so as to crystallize the spin-coated layer; and

growing an III-V nitride alloy film on the spin-coated film after said annealing.

- 35. (Previously Presented)) The epitaxial growth method of claim 34, wherein the gas atmosphere comprises oxygen as an element.
 - 36. (Canceled)
- 37. (Previously Presented) The epitaxial growth method of claim 35 wherein the gas atmosphere comprises H₂O gas.

- 38. (Previously Presented) The epitaxial growth method of claim 35 wherein the gas atmosphere comprises O₂ gas.
- 39. (Previously presented) The epitaxial growth method of claim 34 wherein the spin-coated film is selected from the group consisting of zinc oxide, magnesium oxide, and aluminum oxide.
- 40. (Original) The epitaxial growth method of claim 34 wherein the substrate is selected from the group consisting of sapphire, SiC, Si, GaAs, InP, GaP, ZnO, MgO, LiGaO₂, and LiAlO₂.
- 41. (Previously Presented) The epitaxial growth method of claim 34 wherein the epitaxial III-V nitride alloy film comprises a pn junction.
- 42. (Previously Presented) The epitaxial growth method of claim 34 wherein the epitaxial III-V nitride alloy film is grown by a method selected from the group consisting of metal organic chemical vapor deposition, molecular beam epitaxy, and hydride vapor phase epitaxy.
- 43. (Previously Presented) The epitaxial growth method of claim 34 wherein the epitaxial III-V nitride alloy film is grown by a sequential combination of two or more growth methods selected from the group consisting of metal organic chemical vapor deposition, molecular beam epitaxy, and hydride vapor phase epitaxy.

44-47. (Canceled)

48. (Previously Presented) The epitaxial growth method of claim 34 wherein said annealing occurs at a temperature of 700°C or more.

49-50. (Canceled)

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- 51. (Previously Presented) The epitaxial growth method of claim 48 wherein the annealing occurs in a gas atmosphere, wherein the gas comprises oxygen as an element.
- 52. (Previously Presente) The epitaxial growth method of claim 31 wherein the cover layer is formed by sputtering or CVD.
- 53. (New) The epitaxial growth method of claim 16, wherein the initial buffer layer is formed by nitridization of sapphire substrate.
- 54. (New) The epitaxial growth method of claim 16, wherein the initial buffer layer is formed by chemical vapor deposition of SiC film on silicon substrate.
- 55. (New) The epitaxial growth method of claim 16, wherein the initial buffer layer is formed by RF sputtering of ZnO on sapphire substrate.